

What is claimed is:

1. A mold formed by combining a bottom surface member and four lateral surface members abutted against the bottom surface member, wherein

an engaging structure comprising a recess and a projection for engaging the adjacent lateral surface members into each other is provided on a side of each of the lateral surface members.

2. The mold according to claim 1, wherein

the engaging structure is a structure in which the projection of one of the lateral surface member and the recess of the other lateral surface member adjacent thereto are engaged with each other; and

the engaging structure comprises one or more engaging surfaces that are substantially level with a bottom surface of the bottom surface member, a distance between the engaging surface closest to the upper side of the lateral surface member out of the engaging surfaces and the upper side being in a range of not less than 1 cm nor more than 8 cm.

3. The mold according to claim 1 or 2, wherein shapes of the engaging structures respectively provided on the sides on both sides of each of the lateral surface members are in an asymmetrical

relationship with a center line of the lateral surface member used as a basis.

4. The mold according to claim 3, wherein the shapes of the engaging structures respectively provided on the sides on both sides of the lateral surface member are in a point-symmetrical relationship.

5. The mold according to any one of claims 1 to 4, wherein

the bottom surface member has a closed groove for dividing its upper surface into a square bottom surface center and a square bottom surface outer periphery;

respective bottom sides of the four lateral surface members are engaged with the groove of the bottom surface member so as to surround the bottom surface center with the four lateral surface members combined, and

wedge members are respectively arranged in clearances between outer peripheral surfaces of the four lateral surface members engaged with the groove of the bottom surface member and the bottom surface outer periphery.

6. The mold according to any one of claims 1 to 4, wherein

the bottom surface member is in a square

shape;

the four lateral surface members are abutted against a side surface of the bottom surface member; and further comprising

a mold holder for placing the bottom surface member and the four lateral surface members that are combined;

a plurality of wedge receivers arranged on an upper surface of the mold holder; and

wedge members respectively arranged in clearances between the outer peripheral surfaces of the four lateral surface members provided upright so as to surround the bottom surface member and the plurality of wedge receivers.

7. The mold according to claim 6, wherein the wedge receiver is removable from the upper surface of the mold holder.

8. The mold according to claim 6 or 7, wherein a clearance between a wedge receiver selected out of the plurality of wedge receivers and an other wedge receiver arranged at a position opposed thereto with the bottom surface member and the four lateral surface members that are combined and sandwiched therebetween on the upper surface of the mold holder is adjustable.

9. The mold according to any one of claims 1 to

8, further comprising a frame-shaped member arranged so as to surround the outer periphery of the four lateral surface members integrated by engaging the adjacent lateral surface members for constraining displacement between the lateral surface members.

10. The mold according to any one of claims 1 to 8, further comprising

a frame-shaped member arranged so as to surround the outer periphery of the four lateral surface members integrated by engaging the adjacent lateral surface members and with play given between the frame-shaped member and the four lateral surface members, and

pressing jigs respectively arranged in clearances between the frame-shaped member and four outer corners formed by the adjacent lateral surface members for constraining displacement between the lateral surface members.

11. The mold according to claim 10, wherein the pressing jig has two jig surfaces respectively abutted against the outer peripheral surfaces of the two lateral surface members forming the outer corner of the mold.

12. The mold according to claim 11, wherein the pressing jig has a relief groove provided in an

area corresponding to the outer corner of the mold such that the outer corner is not directly abutted thereagainst.

13. The mold according to any one of claims 10 to 12, wherein the frame-shaped member has a projection abutted against the opposed lateral surface member for constraining displacement therebetween provided in its inner periphery.

14. The mold according to any one of claims 9 to 13, wherein the engaging structure comprises one or more engaging surfaces each comprising the projection of the one lateral surface member and the recess of the other lateral surface member engaged with and abutted against each other and being substantially level with the bottom surface of the bottom surface member, and the frame-shaped members are respectively arranged at positions of the engaging surfaces.

15. The mold according to any one of claims 1 to 14, further comprising a mold release material applied to a mold inner surface comprising the bottom surface member and the lateral surface members, and four corners serving as locking sections between the bottom surface member and the lateral surface members and eight ridges serving as locking sections between the lateral surface

members.

16. A method of forming a mold according to any one of claims 1 to 15, comprising:

a first step of applying a mold release material to respective surfaces of one bottom surface member and four lateral surface members, followed by drying;

a second step of providing the four lateral surface members upright with the bottom surface member used as a bottom surface, and assembling the members in a box shape such that the surfaces to which the mold release material is applied positioned inside; and

a third step of additionally applying the mold release material to locking sections comprising four corners and eight ridges that are formed by the bottom surface member and the lateral surface members.

17. A polycrystalline silicon substrate producing method, comprising the step of producing a silicon ingot using the mold according to any one of claims 1 to 15 and obtaining a polycrystalline silicon substrate from the silicon ingot.